Name _____ Date _____

MAT 1275 – Mr. Kan   Radicals

1) Watch this video on radicals: https://youtu.be/C_e2SW-Bl3E?si=NYU2FGs5LezO2csC

2) Fill in the chart with each respective square root:

Perfect Square	Square Root	Perfect Square	Square Root	Perfect Square	Square Root
4		36		100	
9		49		121	
16		64		144	
25		81		169	

When identifying factors for radicals we want to list them as pairs.
For example: The factors of 40 are 1,40   2,20   4,10   5,8

3) List the first 10 multiples of 4:

Multiples of 4

4*1	4*2	4*3	4*4	4*5	4*6	4*7	4*8	4*9	4*10

4) List the first 10 multiples of 9:

Multiples of 9

9*1	9*2	9*3	9*4	9*5	9*6	9*7	9*8	9*9	9*10

5) List all the factors of 20 as pairs. Circle the pair that contains a perfect square.

_____   _____   _____

6) Simplify: $\sqrt{20}$

7) Simplify: $-\sqrt{63}$

8) Simplify: $3\sqrt{24}$

9) Multiply and then simplify: $\sqrt{2} * \sqrt{6}$

10) Simplify first, then add: $\sqrt{18} + \sqrt{8}$